prev 54987 Work Order ID 48388 July 10, 2009 8:15:52 AM Item ID: D3560-044 Accept Revision ID: D Setup Start Item Name: Arm Weldment Stop Start Date: 07/08/2009 Start Oty: Required Date: 07/17/2009 Cust Item ID: Reg'd Oty 8.00 Reference: Customer: Approvals: Process Plan: Run Start Tooling: Date: QC: Date: SPC (Y/N): Stop Date: Sequence ID/ Operation Work Center ID Set Up/ Draw Description Draw Plan Accept Reject Run Hours Draw Nbr Number Rev. Code Oty Qty Revision Nbr D3560 Rev D 001 0.00 BAND SAW Bandsaw Memo 0.00 Jeaspa Bandsaw Cut blanks 15.500" long 110 0.00 HAAS CNC VERTICAL MACHINING #1

HAAS I

Memo

HAAS CNC vertical machine #1

0.00 1- Mill as per Folio FA696 Rev: & Dwg D3560 Rev: 12-C'sink

0.196" hole on manual mill as per dwg D3560 | 3-Deburr per dwg D3560

120

QC2- Inspect parts off machine FAI/FAIB

0.00

Memo

0.00

Quality Control

Page

Reject

Number

Insp.

Stamp



July 10, 2009 8:15:52 AM



Page 2

Item ID:

D3560-044

Arm Weldment

Revision ID: D

Item Name:

Start Date:

QC:

07/08/2009

Start Qty: 8.00 Required Date: 07/17/2009

Req'd Qty: 8.00

Accept



Setup Start

Stop

Cust Item ID: Customer:

Draw

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Stop



Sequence ID/ Work Center ID

130

Quality Control

Operation Description

QC8- Inspect parts - second check

Memo

Set Up/ Run Hours

0.00

Draw Number Rev.

Plan Code

12.01.04

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

0.00

140



Large Fab

Large Fab

Memo

0.00

0.00

1-Weld assembly as per dwg D3560 STEP: 1- clean material (buff bracket and bottom of arm with blue pad) | 2- set up bracket and arm on jig. | 3- preheat bracket and arm with torch 4- clean before welding with brush 5- set up

machine to 135 amps 16- weld across

QC5- Inspect part completeness to step on W/O

150

Quality Control

Memo

0.00 =) Sio/ai/og



July 10, 2009 8:15:52 AM

Item ID:

D3560-044

Revision ID:

Item Name:

Arm Weldment

Start Date:

07/08/2009

Start Qty: 8.00

Required Date: 07/17/2009

Req'd Qty: 8.00



Accept



Setup Start

Stop

Reference:

Approvals:

Process Plan:

QC:

Date: Date: Tooling:

SPC (Y/N):

Date:

Cust Item ID:

Customer:

Date:

Run

Start

Stop



Sequence ID/ Work Center ID

Quality Control

Operation Description

QC9- Inspect visual per QSI004- Fusion Welds

Memo

Memo

Set Up/ Run Hours

0.00

0.00

Draw Number

D

Draw Rev.

10.01.04

Plan Code

Accept Qty

Reject Qty

Reject Insp. Number

Stamp

170

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

Ph 10. 01. 04

180

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00 mil 10/01/04 (1x

Page 3

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D

July 10, 2009 8:15:52 AM

Page 4

Item ID:

D3560-044

Accept

Setup Start

Stop



Revision ID: Item Name: Start Date:

Arm Weldment 07/08/2009

Start Oty: 8.00 Reg'd Oty: 8.00

Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

OC:

Required Date: 07/17/2009

Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Stop

Sequence ID/ Work Center ID

Small Fab

Operation

Description

0.00

Small Fab

1-Press bushing in D3560 arm per dwg D3562

Draw

Number

Draw Plan Rev. Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

Memo

Memo

0.00

1510/01/04

200

Quality Control

QC5- Inspect part completeness to step on W/O

X

210

Packaging

Identify as per dwg & Stock Location: NA

Memo

0.00

A 10.01.04

Packaging

0.00

D

July 10, 2009 8:15:52 AM

Item ID:

D3560-044

Revision ID:

Item Name: Arm Weldment

Start Date:

07/08/2009

Start Qty: 8.00

Required Date: 07/17/2009

QC:

Reg'd Qtv: 8.00



Accept



Setup Start

Stop

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Draw

Number

Cust Item ID:

Customer:

Run

Start

Stop

Sequence ID/

Work Center ID

220

Quality Control

Operation Description

Memo

QC21- Final Inspection - Work Order Release

Set Up/ Run Hours

0.00

0.00

Date:

Date:

Draw

Rev.

Plan

Code

Accept Otv

Reject Qty

Reject Number

Insp. Stamp

A 10-01-04

Page 5

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Status

Picklist Print

July 10, 2009 8:15:51 AM

Work Order ID: 48388

Parent Item:

D3560-044RevD

Parent Item Name: Arm Weldment

Comments:

Component	Item	ID/
Item Name		

Replacement Item ID

Mfg/ Purch

Manufactured

Primary Item Location No

Last Location

Route Seq ID 100

Unit of Qty on Measure Hand Each 51.0000

Qty To Pick

8.0000

Qty

Issued

Start Date: 07/08/2009

Start Qty: 8.00

Remaining

Required Date: 07/17/2009

Required Qty: 8.00

Date

Issued

Bushing

D2808RevB

Warehouse	L	oc Qty	Loc Code
Location			Sec Code
Main Warehouse			
ST		51	
32896		4	
41708		3	
42181		3	
46738		41	
	140	f	157 4000 10

M6061T6B0.500X05.00

Purchased

157.4000 10.9053

6061-T6 Bar .500 x 5.00



Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
MAT	157.4	
106747	20	
111408	17.4	
112041	60	
112154	60	
	99	



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July 10, 2009 8:15:51 AM

Work Order ID: 48388

Parent Item:

D3560-044RevD

Parent Item Name: Arm Weldment

Comments:

Component Item ID/ Item Name

Replacement Mfg/ Item ID

Purch

Manufactured

Bin Primary Item Location

No

Last Location

Route Seq ID

190

Unit of Measure

Each

Qty on Hand

102.0000 8.0000

Start Date: 07/08/2009

Start Qty: 8.00

Remaining

Qty To Pick Issued

Date Issued

Required Qty: 8.00

Required Date: 07/17/2009

Status

D3592-1RevB

Warehous	se	Loc Qty	Loc Code
Locati	ion		Loc Code
Main Ware	chouse		
ST		102	
3	32661	3	
3	5331	1	
4	1083	6	
4	2279	1	
4	2417	3	
	7015	25	
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Monday, 08/06/2009 9:24:35 AM User: Julie Dawson **Process Sheet** Customer : CU-DAR001 Dart Helicopters Services Drawing Name : ARM Job Number : 48388 Estimate Number : 12884 P.O. Number Part Number : D3560044 : 08/06/2009 This Issue S.O. No. : **Drawing Number** : D3560 REV D Prsht Rev. : NC Project Number : N/A First Issue : 11 : MACHINED PARTS Type **Drawing Revision** : D : 47866 Previous Run Material Written By Due Date : 15/06/2009 Qty: 8 Um: Each Checked & Approved By Comment : Est Rev:A 07.05.24 EC Est Rev B ECN 987 07.10.09 EC verified by DD ECN1048 Est Rev:C 07-12-18 DD veriffied by: EC Additional Product Job Number. Seq. #: Machine Or Operation: Description: 1.0 M6061T6B0500X05000 6061-T6 Bar .500 x 5.00 Comment: Qty.: 1.3598 f(s)/Unit Total: 10.8780 f(s) 6061-T6 Bar 0.50" x 5.00" Batch: M 112 154 2.0 BAND SAW Comment: BAND SAW Cut blanks 15.500" long 3.0 HAAS1 HAAS CNC VERTICAL MACHINING Comment: HAAS CNC VERTICAL MACHINING #1 1- Mill as per Folio FA696 Rev: A & Dwg D3560 Rev: S 2-C'sink 0.196" hole on manual mill as per dwg D3560 3-Deburr per dwg D3560 4.0 QC2 INSPECT PARTS AS THEY COME OFF MACHINE Comment: INSPECT PARTS AS THEY COME OFF MACHINE · MM 09/07

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Market Street		

Date: Monday, 08/06/2009 9:24:35 AM User: Julie Dawson **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: ARM Job Number: 48388 Part Number: D3560044 Job Number: Seq. #: Machine Or Operation: Description: 5.0 008 SECOND CHECK Comment: SECOND CHECK 6.0 D35921 Plate Comment: Qty.: 1.0000 Each(s)/Unit Total: 8.0000 Each(s) PLATE 7.0 LARGE FAB 1 LARGE FABRICATION RESOURCE 1 Comment: LARGE FABRICATION RESOURCE 1 1-Weld assembly as per dwg D3560 STEP: 1- clean material (buff bracket and bottom of arm with blue pad) 2- set up bracket and arm on jig 3- preheat bracket and arm with torch A210.01.04 4- clean before welding with brush 5- set up machine to 135 amps 6- weld across bottom and top ends 7- reheat with torch (65 deg C) 8- on one side weld from bottom to top half way 9- same for other side (half way) 10- from half way point weld the rest of the first side (ease off pedal near end) 11- same for remaining side (ease off pedal near end) 8.0 QC5 INSPECT WORK TO CURRENT STEP Comment: INSPECT WORK TO CURRENT STEP 9.0 QC9 VISUAL WELDING INSPECTION Comment: VISUAL WELDING INSPECTION

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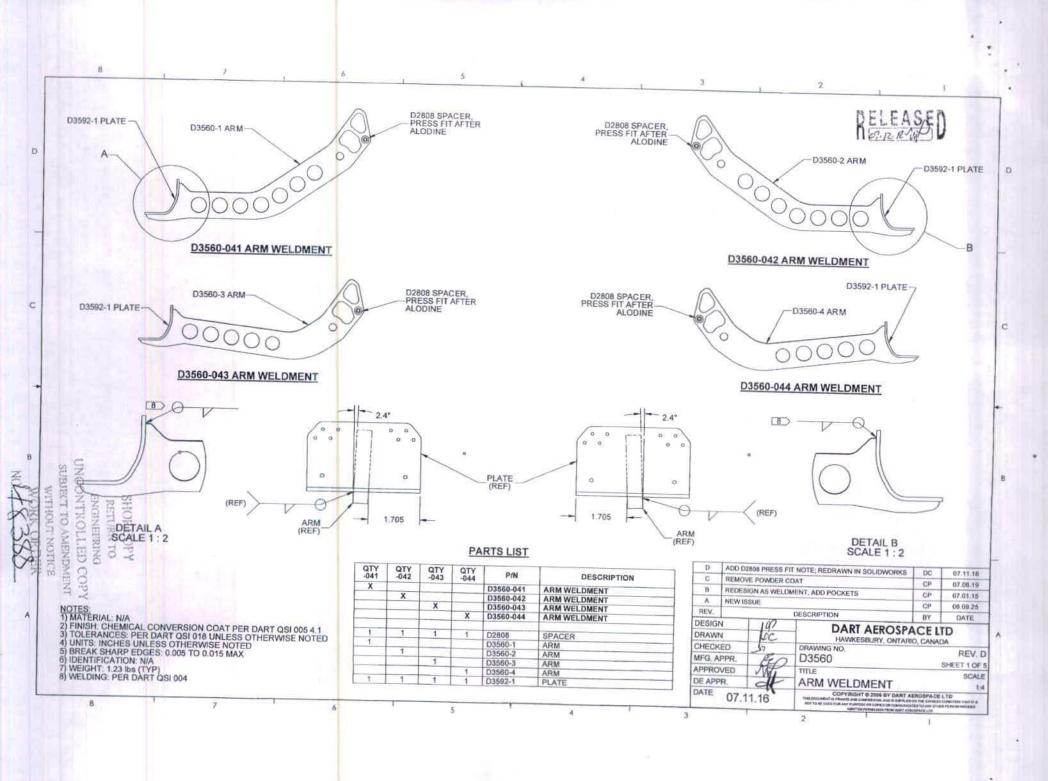
Date: Monday, 08/06/2009 9:24:35 AM User: . Julie Dawson **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: ARM Job Number: 48388 Part Number: D3560044 Job Number: Seq. #: Machine Or Operation: Description: 10.0 HAND FINISHING1 HAND FINISHING RESOURCE #1 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 11.0 QC3 INSPECT POWDER COAT/CHEMICAL CONVERSION Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION 12.0 D2808 Bushing Comment: Qty.: 1.0000 Each(s)/Unit Total: 8.0000 Each(s) Spacer batch: 13.0 SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Press bushing in D3560 arm per dwg D3562 14.0 QC5 INSPECT WORK TO CURRENT STEP Comment: INSPECT **CURRENT STEP** 15.0 PACKAGING PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 16.0 QC21 FINAL INSPECTION/W/O RELEASE Comment: FINAL INSPECTION/W/O RELEASE Job Completion

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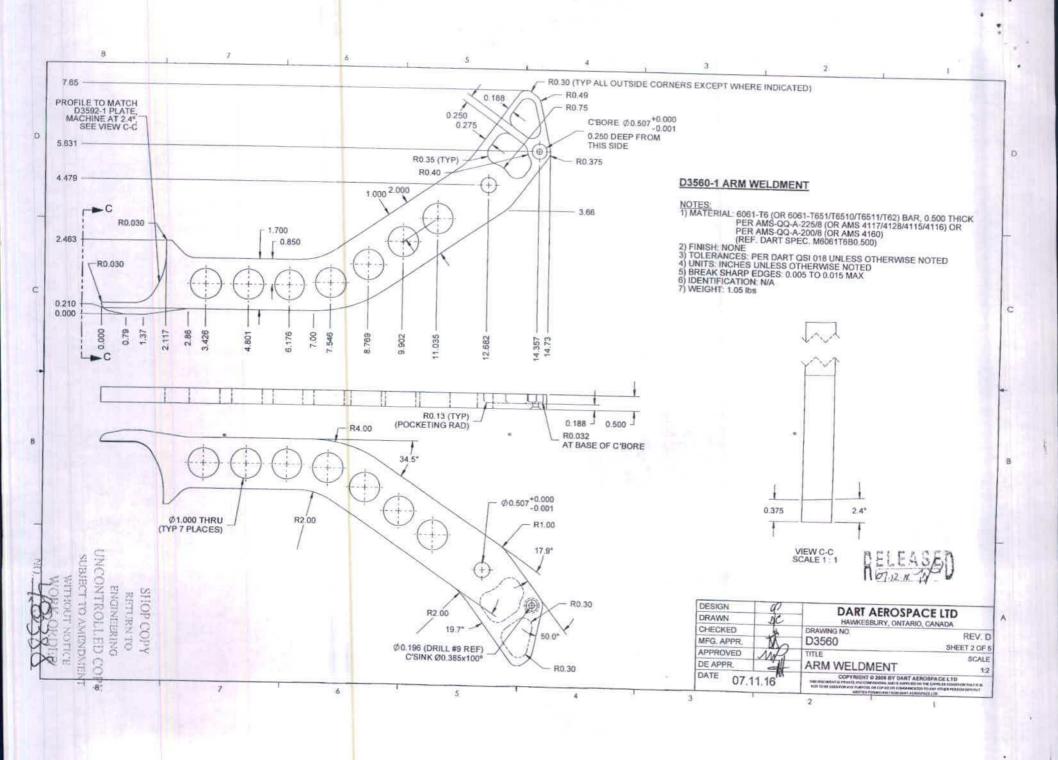
DART AEROSPACE LTD			Work Order:	48388
Description: Arm	1	1	Part Number:	D3560-4
Inspection Dwg: D3560 Rev: 🗷	7	1		Page 1 of 1

		X First A	rticle	Prof	totype		
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	0	comments
Ø0.507	+0.000/-0.001		0.506				
Ø0.196	+0.005/-0.001		0.97				
Ø1.000	+0.010/-0.001		Ø1.001				
Ø0.900	+0.010/-0.001		899				
0.500	+/-0.010		.493				
0.250	+/-0.010		:350				
0.275	+/-0.010		274	7.7			
0.188	+/-0.010		.183				
2.000	+/-0.010		.10.3			Ras	1
1.750	+/-0.010		1.750			805	la six le
1.702	+/-0.010		1.207				
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0.250 Deep	+/-0.010		350				
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Date:	09/07/06	Date:	07/07/	19		Date:	N/A
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A 07.01.17 B 07.06.13					KJ/J	LM XA	B

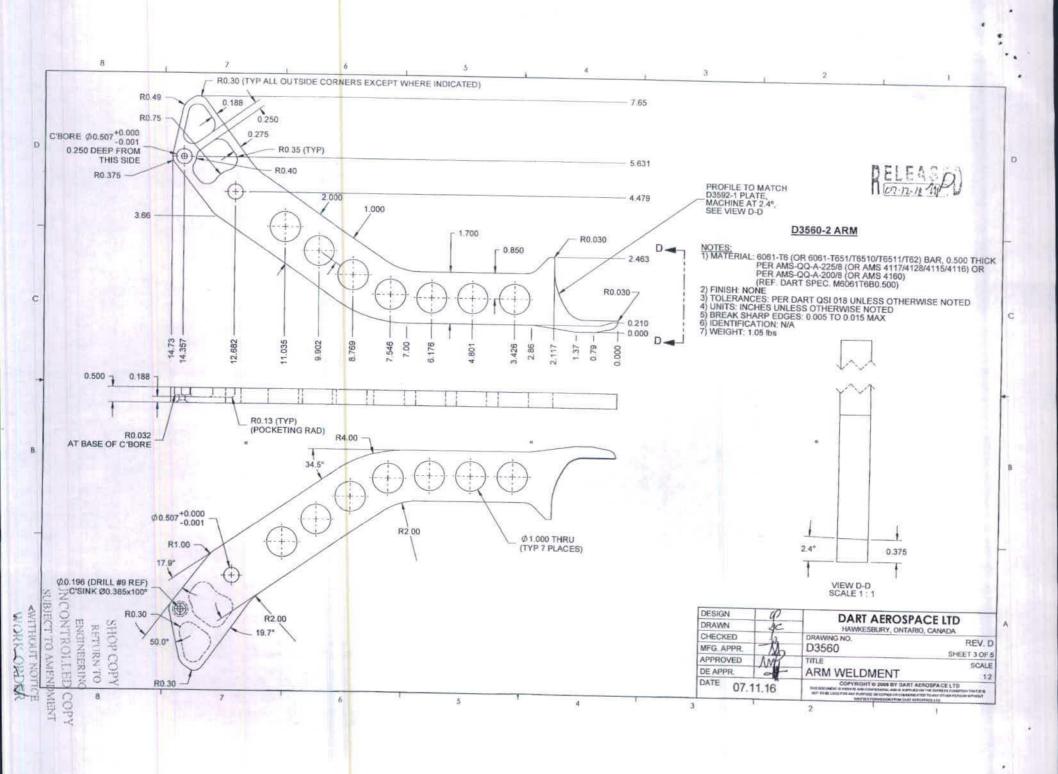
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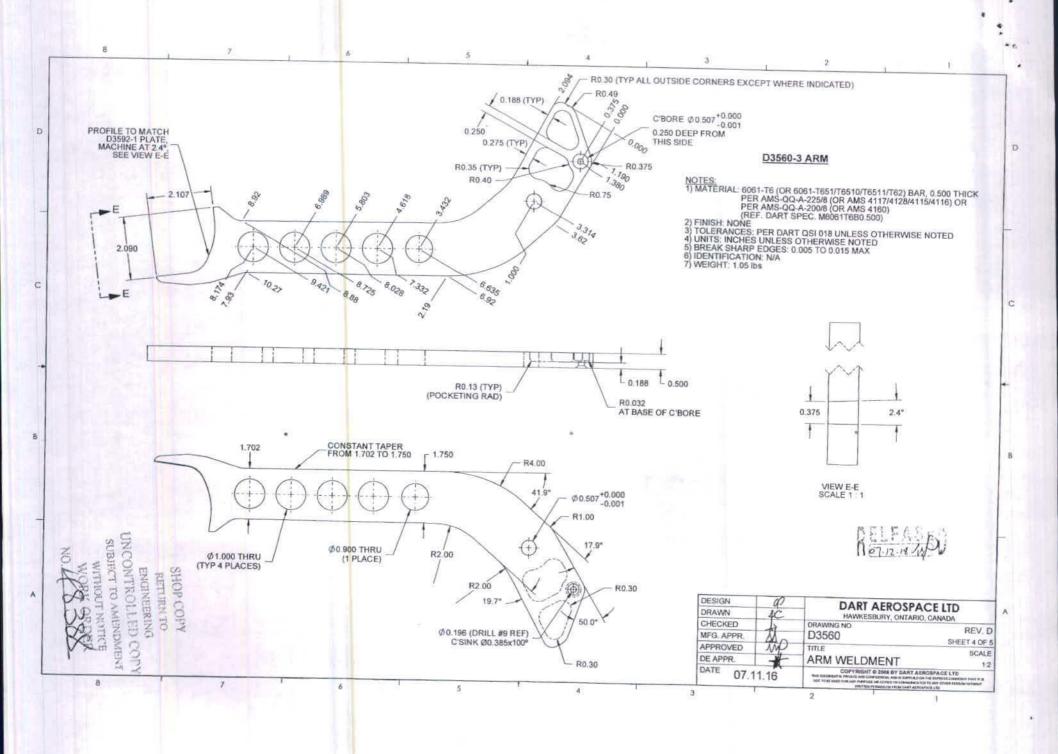


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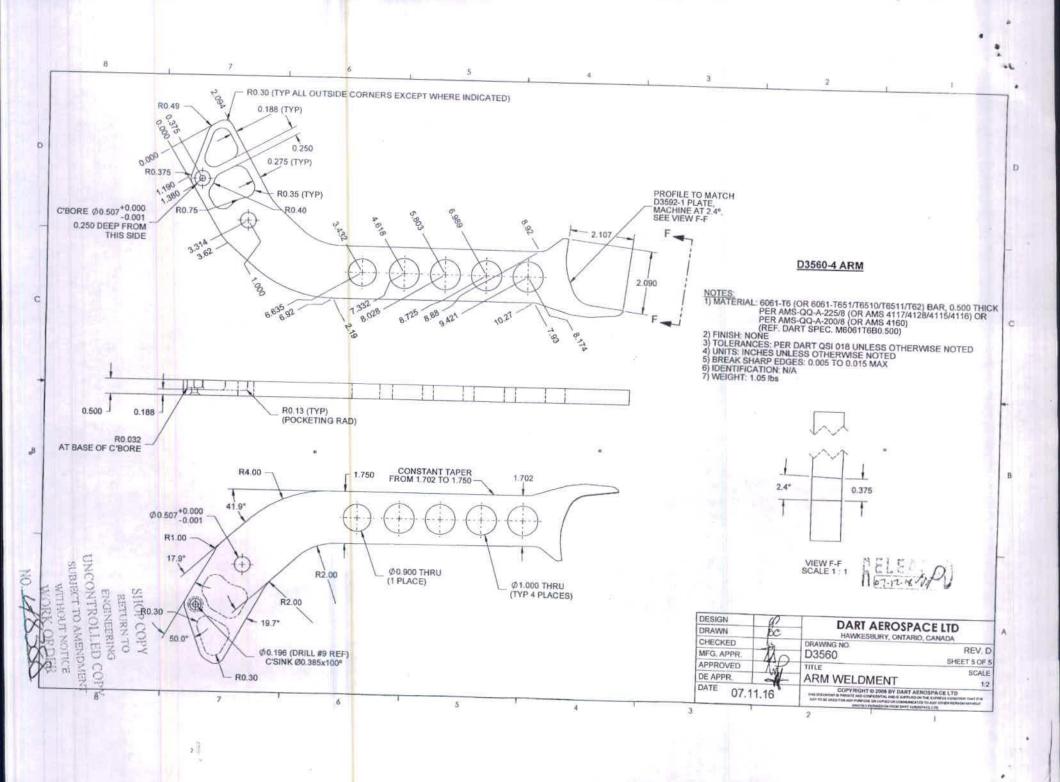


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